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Richland, WA

02b - Detailed Menu Layout of Sampling Design Options

Learning Objectives:

Terminal Objective: To be able to navigate through the Visual Sample Plan menu structure and to find some of the most commonly used features.

Enabling Objectives:

- To be able to open a .dxf file or create a new project.
- To be able to find four different views of a new project: the map view, the graph view, the report view and the coordinates view.
- To become familiar with the various sampling designs that can be created using VSP.

I. Open a .dxf File or Create a New Project

Instructor's Notes	Navigation or Action Required
Open Visual Sample Plan from the Start menu.	**Start → Programs → Visual Sample Plan**
Maximize Vsampl1 box.	**Click on maximize button**
Then to open an existing .dxf file:	**Map → Load DXF…→Base.dxf. Click on Open button**
Or to create a new project (for example room surfaces):	**Map → Draw MARSSIM Room** **Then enter dimensions of room from the keyboard: LxWxH <enter>**
Close the project without saving it.	**File → Close Project** **Click NO**

II. Project Views

Instructor's Notes	Navigation or Action Required
To open an existing project file:	**File → Open Project File → Example1**
Maximize the Example1 map box.	**Click on maximize button**
To see the map and graph views simultaneously:	**Window → Double Window**
To see the map, graph and report views simultaneously:	**Window → Triple Window**
To see the map, graph, report, and coordinates views simultaneously:	**Window → Quad Window**
To see one particular view only (e.g. the graph view	**View → Graph**

III. Sampling Designs

Instructor's Notes	Navigation or Action Required
There are three major types of sampling designs that can be created with VSP: simple random, systematic grid, and judgmental.	
Note: For all sampling design menu selections (except Judgmental and Predetermined), a dialog box will appear where test parameters can be varied to create different sampling designs.	
Create a parametric sampling design suitable for a one-sample t-test analysis.	**Sampling Designs → Simple Random Sampling → Parametric → True Mean vs. Action Level…**
Create a parametric sampling design suitable for a two-sample t-test analysis.	**Sampling Designs → Simple Random Sampling → Parametric → True Mean vs. Reference Area True Mean…**
Calculate the number of samples needed to establish a confidence interval for specified values of confidence, standard deviation, and width of the confidence interval.	**Sampling Designs → Simple Random Sampling → Parametric → Confidence Interval on True Mean…**
Create a nonparametric sampling design suitable for a Wilcoxon Signed Rank Test analysis.	**Sampling Designs → Simple Random Sampling → Nonparametric → True Mean or Median vs. Action Level…**
Create a nonparametric sampling design suitable for a one-sample test of proportions.	**Sampling Designs → Simple Random Sampling → Nonparametric → Proportion vs. Given Proportion…**

Create a nonparametric sampling design suitable for the Sign Test analysis.	**Sampling Designs → Simple Random Sampling → Nonparametric → MARSSIM Sign Test…**
Create a nonparametric sampling design suitable for the Wilcoxon Rank Sum (WRS) analysis.	**Sampling Designs → Simple Random Sampling → Nonparametric → MARSSIM WRS Test…**
Randomly place a predetermined number of samples on a given sampling area.	**Sampling Designs → Simple Random Sampling → Predetermined…**
Create a parametric systematic grid sampling design suitable for a one-sample t-test analysis.	**Sampling Designs → Systematic Grid Sampling → Parametric → True Mean vs. Action Level…**
Create a parametric systematic grid sampling design suitable for a two-sample t-test analysis.	**Sampling Designs → Systematic Grid Sampling → Parametric → True Mean vs. Reference Area True Mean…**
Create a nonparametric systematic grid sampling design suitable for a Wilcoxon Signed Rank Test analysis.	**Sampling Designs → Systematic Grid Sampling → Nonparametric → True Mean or Median vs. Action Level…**
Create a nonparametric systematic grid sampling design suitable for a one-sample test of proportions.	**Sampling Designs → Systematic Grid Sampling → Nonparametric → Proportion vs. Given Proportion…**
Create a nonparametric systematic grid sampling design suitable for the Sign Test analysis.	**Sampling Designs → Systematic Grid Sampling → Nonparametric → MARSSIM Sign Test…**
Create a nonparametric systematic grid sampling design suitable for the Sign Test analysis.	**Sampling Designs → Systematic Grid Sampling → Nonparametric → MARSSIM Sign Test…**
Create a nonparametric systematic grid sampling design suitable for the Wilcoxon Rank Sum (WRS) analysis.	**Sampling Designs → Systematic Grid Sampling → Nonparametric → MARSSIM WRS Test…**
Create a sampling design that will have a given level of confidence of locating a hot spot of a given size and shape.	**Sampling Designs → Systematic Grid Sampling → Locating Hot Spots → By Probability and Hot Spot Size…**
Create a sampling design that will have a given level of confidence of locating a hot spot of a given size and shape for a prespecified grid size.	**Sampling Designs → Systematic Grid Sampling → Locating Hot Spots → By Probability and Grid Size…**
Create a judgmental sampling design by manually adding sample point to an existing sample area.	**Sampling Designs → Judgmental Sampling → Manually Add Samples**